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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/886,521		06/20/2001	Charles A. Miller	3401P097	6403	
8791	7590	09/07/2005		EXAM	EXAMINER	
		OFF TAYLOR &	NGUYEN	NGUYEN, TRUC T		
12400 WILSHIRE BOULEVARD SEVENTH FLOOR				ART UNIT	PAPER NUMBER	
LOS ANGE	LES, CA	90025-1030	2833	· · · · · · · · · · · · · · · · · · ·		

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/886,521	MILLER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Truc T. T. Nguyen	2833					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. lety filed the mailing date of this communication. C (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on RCE	filed on 5/9/05.						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-27 is/are pending in the application.							
4a) Of the above claim(s) <u>17-27</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-13</u> is/are rejected.							
7)⊠ Claim(s) <u>14-16</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents							
2. Certified copies of the priority documents							
Copies of the certified copies of the prior		ed in this National Stage					
application from the International Bureau		•					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) A) Interview Summary (PTO-413) Paper No(s)/Mail Date							
Notice of Draftsperson's Patent Drawing Review (PTO-946)		ratent Application (PTO-152)					
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/9/05 has been entered.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-7, and 10-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Maeda (US 6,152,744).

Regarding claims 1-2, Maeda disclose an apparatus comprising:

a first substrate (1) having a plurality of through holes (un-numbered, see Figure 7); and

a plurality of coaxial cables (29), each comprising a conductor (30) and a shield (34) extending through respective one of the plurality of through holes of the substrate and terminating about a surface of the substrate such that the conductors of the respective ones of the plurality of cables are planarly aligned and available for electrical contact to a second different substrate (6) (see Figures 6 & 7).

Regarding claim 3, Maeda discloses the through holes of the substrate are configured such that conductors (30) are aligned with respective contact points (16) of an electronic component (6).

Regarding claim 4, Maeda discloses the electronic component (6) is a circuit test component of testing socket (1).

Regarding claim 5, Maeda discloses the electronic component (6) is an interposer.

Regarding claim 6, Maeda disclose the surface of the substrate comprise of dielectric material.

Regarding claim 7, Maeda discloses contact pads (16) are coupled to respective conductors at the surface of the substrate.

Regarding claim 10, Maeda discloses the plurality of cables comprise first conductors (29) designated as data signal line between the first electronic component (6) and a second electronic component (not show, which will be connected to a free end of the cable 29, see Figure 6).

Regarding claims 11 and 12, Maeda disclose the second group of cables (29) dispose in different second area (see Figure 6, group of cable 26 on the right area) but silently whether those cable could be used for supply and return lines or not. It has been held that a recitation

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with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitation. Ex Parte Masham, 2 USPO2d 1647 (1987).

Regarding claim 13, Maeda disclose the first conductor is disposed in a first area (see Figure 6, group of cable 29 on the left area).

Claims 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Colleran et al. (US 3. 5,344,338).

Colleran et al. disclose an apparatus comprising:

a first substrate (10) a plurality of through holes (34); and

a plurality of cables (40) each comprising a conductor (38), each cable extending through respective ones of the plurality of through holes of the first substrate and terminating about a surface (19) of the first substrate such that the conductors of the respective ones of the plurality of cables are planarly aligned and available for electrical contact to a second different substrate (17).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda (US 5.

6,152,744) in view of Finn et al. (US 6,233,818).

Maeda substantially disclose the claimed invention except for the conductor being coat

with one of gold, platinum, palladium, or other metallic conductor.

Finn et al. teach a contact (138) being coated with gold (145).

It would have been obvious to one having ordinary skill in the art at the time the

invention was made to provide a gold coating into Maeda's conductor, as taught by Finn et al.

for increasing the oxidation resistance (column 15, lines 40-55).

Allowable Subject Matter

Claims 14-16 are objected to as being dependent upon a rejected base claim, but would 6.

be allowable if rewritten in independent form including all of the limitations of the base claim

and any intervening claims.

7. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach a second substrate coupled to the first substrate.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

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Response to Arguments

Applicant's arguments with respect to claims 1-16 have been considered but are moot in

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view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Truc T. T. Nguyen whose telephone number is 571-272-2011.

The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paula Bradley can be reached on 571-272-2800 extension 33. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

T. Nguyen May 6, 2004

TRUCT. NGUYEN